

Title (en)
METHOD AND APPARATUS FOR PLATING AND COATING AND ARTICLES SO PRODUCED

Publication
EP 0201992 A3 19871202 (EN)

Application
EP 86301836 A 19860313

Priority
US 71259785 A 19850318

Abstract (en)
[origin: US4600662A] Method and apparatus for the coating of a substrate wherein the following chronologically takes place under vacuum conditions: (i) non-oxidized plating material is deposited on the substrate via ion vapor deposition; and (ii) a coating material is chemically bonded with the non-oxidized plating material. The coating material may comprise a primer, which chemically bonds with the non-oxidized plating material, and a polymer, which impregnates the primer-prepared plating material. Said polymer may also chemically bond with the primer. Alternatively, the coating material may comprise an epoxy which forms an organo-metallic bond with the plating material. In another embodiment of the invention, the coating material may comprise boron trifluoride, which chemically bonds with the non-oxidized plating material, and a polymer, which impregnates the boron trifluoride-prepared plating material. Alternatively, the coating material may comprise calcium, silicon, and oxygen which chemically bonds with the plating material. The coating material may be bifunctional, in that it not only chemically bonds with the plating material but also bonds with a second coating material, yielding a chemically bonded uniform coating with desired results.

IPC 1-7
B05D 1/00; **B05D 7/24**; **C23C 14/00**

IPC 8 full level
C23C 14/12 (2006.01); **B05D 3/06** (2006.01); **B05D 3/10** (2006.01); **B05D 3/12** (2006.01); **B05D 7/14** (2006.01); **B05D 7/24** (2006.01); **C23C 14/32** (2006.01); **C23C 14/58** (2006.01); **C23C 28/00** (2006.01)

CPC (source: EP US)
C23C 28/00 (2013.01 - EP US); **Y10T 428/12556** (2015.01 - EP US); **Y10T 428/12569** (2015.01 - EP US)

Citation (search report)
• [X] AU 481742 A
• [A] GB 2116454 A 19830928 - BL TECH LTD

Designated contracting state (EPC)
BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
US 4600662 A 19860715; AU 5440586 A 19860925; BR 8601187 A 19861125; CA 1283816 C 19910507; EP 0201992 A2 19861120; EP 0201992 A3 19871202; JP S621480 A 19870107; NO 861003 L 19860919

DOCDB simple family (application)
US 71259785 A 19850318; AU 5440586 A 19860307; BR 8601187 A 19860317; CA 503103 A 19860303; EP 86301836 A 19860313; JP 5844586 A 19860318; NO 861003 A 19860317